RG104 E-1 Box 148

Wilson Brothers & Co.
Civil Engineers and Architects,
No. 435 Chestnut St.
Philadelphia, Pa.

JOHN A. WILSON, Civil Engineer.
JOS. M. WILSON, Civil Engineer & Arch!
FRED. G. THORN, Architect.
HENRY W. WILSON, Civil Engineer.
CHARLES G. DARRACH, Civil & Hydraulic Engineer.
HENRY A. MACOMB, Architect.

CHICAGO OFFICE, 243 STATE ST.

Sept. 26th, 1887.

Copy.

Mess. William Sellers & Co., Inc.

Gentlemen:

In answer to yours of Sept. 24th, we would say, that the specifications under which your contract was made, provides as follows: "That the contractor will be required to provide and erect such shafting, pulleys, belts, gearing etc. etc.-- and 75 horse power by one engine located as shown on Drawing No. 14966."

If you will refer to the drawing you will find that this is engine No. 2.

You will also find on page No. 4, as follows: "A new line shaft 4 inch diameter, about 30 feet long, to run 150 revolutions per minute, must be provided and erected------------------------- in North passageway-- This new shaft will receive its power from a 78 by 20 inch pulley on jack shaft hereinbefore described, to a pulley $36^4$10 inches diameter, 20 inch face, provided with friction clutch, and also

RG104 E-1 Box 148

independently from engine No. 2, by a 36 by 20 inch pulley provided with friction clutch. At the easteren end of this shaft, provide and erect bevel gearing to drive 4 inch shaft to connect with shaft under west side of Coining Room, hereinafter to be described."

We figure that this 36 by 20 inch pulley running 150 revolutions, would transmit 54 horse power. You will recollect that when the matter was finally worked out, it was determined that this pulley should be changed to 38 inches diameter, 18 inch face, which we figure would transmit $51^{3}10$ horse power, which in turn would be transmitted by the bevel gear to the Coining Room.

We do not want less than this amount of power, for we found that by an average of 7 cards taken off the small engine driving the Coining Room, alone, showed $36^{6}10$ horse power, although the largest card, would, if worked out, show considerably greater horse power.

It must also be taken into consideration, that all the work contemplated by that line of shafting, to-wit; the Machine Shop and sundry other machinery, was not in full operation when the cards were taken. If you so desire, we can give you the opportunity of examining the cards and data taken on the test.

Hoping that this information will be all that you require, we remain,

Very respectfully,

Wilson Sho & Co

NARA RG104, Entry 1, Box 148

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Civil Engineers and Architects,
Philadelphia, Pa.
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in North passageway ----
This new shaft will receive its power from a 78 by 20 inch pulley on jack shaft hereinbefore described, to a pulley 36 4 10 inches diameter, 20 inch face, provided with friction clutch, and also independently from engine No. 2, by a 36 by 20 inch pulley provided with friction clutch. At the eastern end of this shaft, provide and erect bevel gearing to drive 4 inch shaft to connect with shaft under west side of Coining Room, hereinafter to be described.”

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